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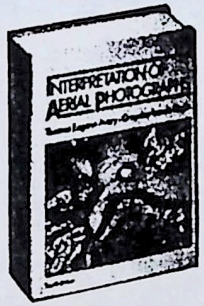
EOSAT Satellite Images

$50 - $3,300

Information **free** from:
EOSAT
4300 Forbes Boulevard
Lanham, MD 20706



Interpretation of Aerial Photographs
Thomas E. Avery and Graydon L. Berlin
1985; 554 pp.

$37.35
($38.85 postpaid) from:
Burgess Publishing Co.
7108 Ohms Lane
Minneapolis, MN 55435
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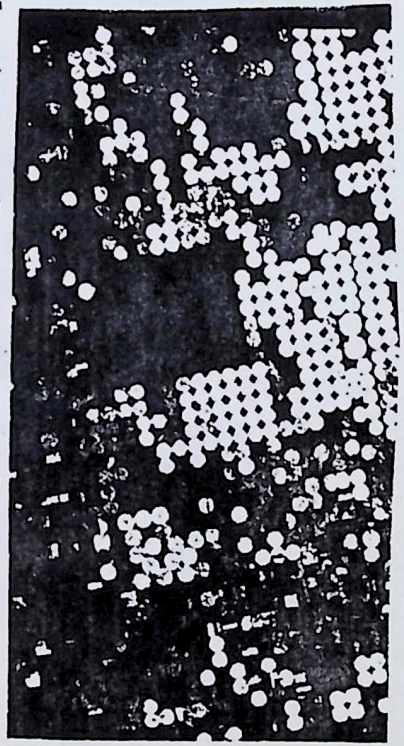
In 1984, the U.S. Congress decided to turn the Landsat program over to the private sector. The still-functioning Landsat 4 and 5 satellites, and the huge archive of data accumulated since 1972, have been transferred to the Earth Observation Satellite Company (EOSAT).

Prices range from $50 for a black and white photo on paper with 80-meter ground resolution (image size 7.3 inches on an edge, showing approximately 115 miles square), up to $3,300 for a computer-compatible tape of a scene from the Thematic Mapper (TM) on Landsat 5. TM scenes have a ground resolution of 30 meters — less than SPOT (see review next page) provides, but the TM's primary sensor has seven spectral filters, compared with SPOT's three. This finer spectral discrimination makes it possible to identify different plant species or types of rock by detecting subtle differences in the color of the sunlight they reflect, even when they're not identifiable by shape or texture.

—Robert Horvitz



EOSAT/Landsat view of center-pivot irrigated south of Garden City, Kansas.

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Is owning a telephone and a computer a right (lege? This question will be at the center of one most critical issues of the next 10 years. The res it will answer an impending question the governme private sector are anxious to have answered: W contribute more to public militance — greater ac information or more restricted access to informat

—*The Fut*

•

Age Wars: The Coming Battle Between Young an Phillip Longman (Americans for Generational Ec Washington), *The Futurist*, 20:1, Jan-Feb 1986, t

Today's prosperity is being purchased at the eve pense of today's younger citizens and those yet The early decades of the next century may bring between the generations, as tomorrow's elderly to compel the young to honor the compounding the present era: 1) the delayed repairs to the ph frastructure (roads, bridges, etc.); 2) the postpo disposal of toxic wastes; 3) running down supplie topsoil, energy, and clean water; 4) the massive deficit (financing the interest charges alone on th deficit will cost the average citizen now entering work force an extra $10,000 in taxes over his or lifetime); 5) failing to save for the retirement of t boom generation (by 2035, there could be fewe two workers for each retiree). The baby boomers pass an impossible encumbrance on to their chil and/or face an impoverished old age. Indeed, th boomers are already in the grip of real downwa bility: between 1973 and 1983, real after-tax in households headed by a person 25-34 declined 19%. Concludes that younger Americans must en government to institute reforms in their own and nation's long-term interest.

—*Future S*

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The simplest medical applications of nanomachir involve not repair but selective destruction. Canc vide one example; infectious diseases provide ano goal is simple: one need only recognize and dest dangerous replicators, whether they are bacteria cells, viruses, or worms. Similarly, abnormal grow deposits on arterial walls cause much heart diseas machines that recognize, break down, and dispose them will clear arteries for more normal blood flow Selective destruction will also cure diseases such as herpes in which a virus splices its genes into the DN a host cell. A repair device will enter the cell, read DNA, and remove the addition that spells "herpes

EXCERPT CARD

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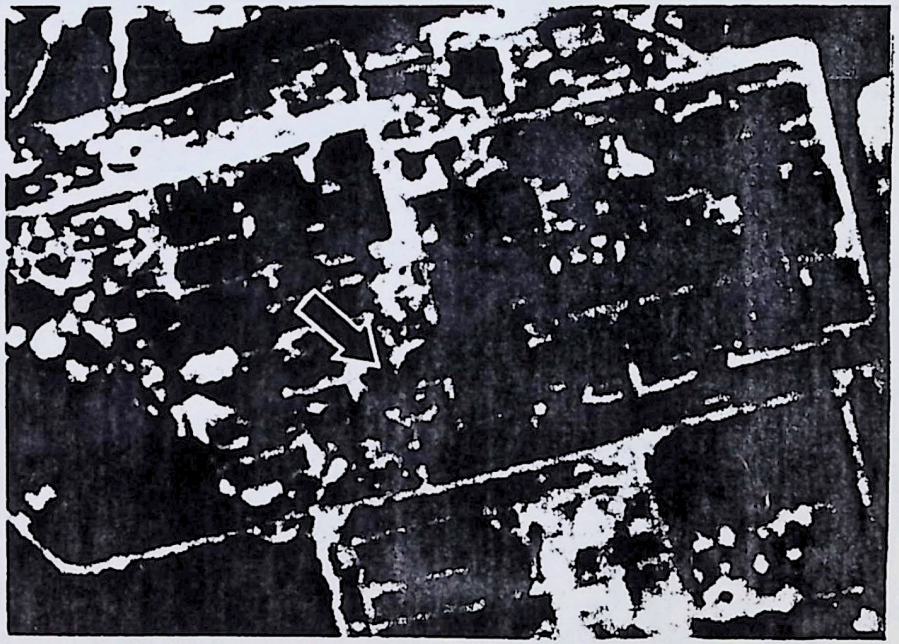

The SPOT 1 image that gave the civilian world one of the first glimpses of the damaged Russian nuclear reactor at Chernobyl in 1986. Arrow points toward a dark squiggly diagonal line — thought to be scorched ground resulting from an explosion.

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